PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference AG04-033C-PC	FOR FURTHER ACTION		tion of Transmittal of International Search Report ISA/220) as well as, where applicable, item 5			
International application No. PCT/US04/20323	International filing date (day/mont) 23 June 2004 (23.06.2004)	r/year)	(Earliest) Priority Date (day/month/year) 24 June 2003 (24.06.2003)			
Applicant AGRINOMICS, LLC						
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.						
Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:						
	contained in the international application in written form. filed together with the international application in computer readable form.					
	furnished subsequently to this Authority in written form.					
furnished subsequently to the	nis Authority in computer readable fo	rm.				
the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
furnished.	the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
	Certain claims were found unsearchable (See Box I).					
 Unity of invention is lacking With regard to the title, 	Unity of invention is lacking (See Box II). With regard to the title					
	th regard to the title, the text is approved as submitted by the applicant.					
1 = :	d by this Authority to read as follows	:				
5. With regard to the abstract,						
the text is approved as subm	•					
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.						
6. The figure of the drawings to be published with the abstract is Figure No.						
as suggested by the applican	nt.		None of the figures			
because the applicant failed to suggest a figure.						
because this figure better characterizes the invention.						

Form PCT/ISA/210 (first sheet) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20323

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)			
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:			
Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:			
Claim Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3. Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet			
As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.			
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.			
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-6			
Parault on Parault			
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

Form PCT/ISA/210 (continuation of first sheet(1)) (July 1998)

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/20323

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12N 5/04, 5/10, 15/82; AO1H 1/00 US CL : 536/23.1, 24.5; 800/286, 289; 435/320, 419 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) U.S.: 536/23.1, 24.5; 800/286, 289; 435/320, 419						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where a	propriate, of the relevant passages Relevant to claim	No.			
Y	RYAN et al. Accession Number: T01350. 12 Feb 199					
Y	CHEN et al. US 6791012. Date Filed: Aug 24, 1999.	1-6				
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Further	documents are listed in the continuation of Box C.	See patent family annex.				
	pecial categories of cited documents:	"T" later document published after the international filing date or prior	rity			
"A" document	defining the general state of the art which is not considered to be of	date and not in conflict with the application but cited to understan principle or theory underlying the invention				
	relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive				
"L" document establish (specified)	which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is con with one or more other such documents, such combination being				
"O" document referring to an oral disclosure, use, exhibition or other means		obvious to a person skilled in the art				
priority da	published prior to the international filing date but later than the ate claimed	"&" document member of the same patent family				
Date of the actual completion of the international search 09 June 2005 (99.06.2005)		Date of mailing of the international search report 29 AUG 2004				
	niling address of the ISA/US	Anthorized officer				
Mail Stop PCT, Atm: ISA/US Commissioner of Patents P.O. Box 1450		Barbo M. Katoma St. Ju Chego,	7			
Alex	Andria, Virginia 22313-1450	Telephone No. 571 272 1600				

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BOX II. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid. Group I claim(s) 1-6, drawn to a transgenic plant comprising a transformation vector comprising a nucleotide sequence that encodes DROS polypeptide comprising the amino acid sequence of SEQ 1D No. 2, wherein said amino acid confers drought tolerance to said plant; a plant, a plant part, a method of producing increased drought tolerance by introducing into the progenitor cells of a plant a transformation vector comprising amino acid of SEQ ID No. 2. Group II, claim(s) 7-9, drawn to a method of generating a plant having an increased drought tolerance phenotype comprising identifying a plant that has an allele in its DRO5 polypeptide comprising an amino acid sequence of SEQ ID No. 2, or an ortholog thereof, and growing the transformed progenitor cells to produce a transgenic plant which expresses the polynucleotide and increased drought tolerance, the method that employs QTL and TILLING methodology. The inventions listed as Groups I and II do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Group I is drawn to a transgenic plant encoding DRO5 polypeptide, exhibiting drought tolerance, and Group II is drawn to a method of generating a plant.